

## Product datasheet for **MG220677**

### Renbp (NM\_023132) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Renbp (NM_023132) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Renbp
Synonyms:	Age; Rnbp
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG220677 representing NM_023132 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGATGGACCTAGGACTCCTAATGTTACAGGACATGGAGAAGGAACGGGAGACACTGCAGGTCTGGAAGA  
AGCGTGTGGAACAAGAGCTTGATCGTGTGATCGCTTTCTGGATGGAGCATTCCCATGACCAGGAACCGG  
GGGCTTCTTCACATGTCTGGCCGTGATGGGAAGGTATATGATCACCTCAAATATGTTTGGCTGCAGGGG  
AGGCAGGTATGGATGATTGTCGCTTATACCGCAGTTTTGAGCGCTTCCGCCGTGTTGAGCTTCTGGATG  
CAGCAAGAGCAGGTGGTGAATTTTTGCTGCGTTATGCCCGGTGGCACCACCTGGCAAGAAATGTGCTTT  
TGTGCTGACTCGGGATGGCCGGCCAGTGAAGGTGCAGCGGACATTTTCAGCGAGTGCTTACACCATG  
GCCATGAATGAACTGTGGAAGTAACGGGGGAAGTGCCTTATCAGAGTGAAGCCATAGAGATGATGGATC  
AGATCATCCACTGGGTACGGGAGGACCCGGCTGGGTTGGGCCGGCCTCAGCTCTCAGGGGCACTGGCCAC  
AGAGCCCATGGCAGTGCCCATGATGCTGCTCAGCCTGGTGGAGCAGCTTGGAGAAGAAGATGAGGAGCTG  
ACCAACATGTATGCAGAACTAGGGGACTGGTGTGCCACAGGATTCTCAGCATGTCCAGAGGGATGGAC  
AAGTTGTACTGGAGAATGTATCAGAGGATGGAAAAGAGCTTCTGGTGCCTTGGAAAGACATCAGAACCC  
AGGCCACACACTGGAAGCTGGCTGGTTTTCTGCTCCAGTATGCCCTCAGGAAAGGTGACCCCAAACCTCGA  
ATGCACATCATTGACAAGTTTTCTTATTGCCTTCCACTCTGGATGGGACCCTGAACATGGAGGCTCT  
TCTACTTCCAGGATGCGGATGGTCTCTGCCCTACCCAGCTGGAATGGAACATGAAGCTGTGGTGGCCACA  
CAGTGAAGCCATGATTGCCTTCTCATGGTTATAGTGACAGTGGGACCCTGCCTTGTGCATCTCTTC  
TACAAGGTGGCTGAGTACACCTCCGCCAGTTTCGTGATCCTGAGTATGGGGAATGGTTTGGCTACCTGA  
ACCAAGAGGGAAAGGTGGCCCTACCATCAAGGGAGGTCCTTTAAAGGCTGCTTCCATGTGCCCGGTG  
CCTGGCCATGTGCGAGCAGATTCTAGGAGCCCTACTCCAACGCCCTTGAGCCCGCCCCCTCGACTCTCG  
CCCCTGTCTCTACCCATGAAGGCTCGAAA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



[View online »](#)

**Protein Sequence:** >MG220677 representing NM\_023132  
Red=Cloning site Green=Tags(s)

```
MMDLGLLMLQDMEKERETLQVWKKRVEQELDRVIAFWMEHSHDQEHGGFFTC LGRDGKQVVDHLKYVWLQG
RQVWMYCRLYRSFERFRVELLDAARAGGEFLLRYARVAPPKKCAFVL TRDGRPVKVQRTIFSECFYTM
AMNELWKVTGEVRYQSEAIEMMDQIIHWVREDPAGLGRPQLSGALATEPMAVPMMLLSLVEQLGEEDEEL
TNMYAELGDWCVHRILQHVQRDGGQVVLENVSEDKELPGCLGRHQNPGH TLEAGWFLQLYALRKGDPKLR
MHIIDKFLLLPFHSGWDPFHGGLFYFQDADGLCPTQLEWNMKLWWPHSEAMIAFLMGYSDSGDPALLHLF
YKVAEYTRQFRDPEYGEWFGYLNQEGKVALTIKGGPFKGC FHVPRCLAMCEQILGALLQRLEPAPLDSS
PAVSTHEGSK
```

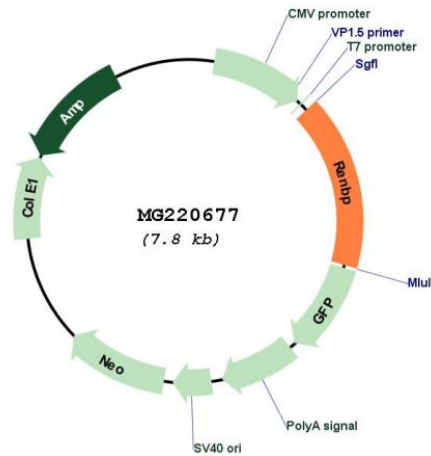
TRTRPLE – GFP Tag – V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_023132

<b>ORF Size:</b>	1290 bp
<b>OTI Disclaimer:</b>	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_023132.3</a> , <a href="#">NP_075621.3</a>
<b>RefSeq Size:</b>	1434 bp
<b>RefSeq ORF:</b>	1293 bp
<b>Locus ID:</b>	19703
<b>UniProt ID:</b>	<a href="#">P82343</a>
<b>Cytogenetics:</b>	X 37.49 cM
<b>Gene Summary:</b>	Catalyzes the interconversion of N-acetylglucosamine to N-acetylmannosamine. Binds to renin forming a protein complex called high molecular weight (HMW) renin and inhibits renin activity. Involved in the N-glycolylneuraminic acid (Neu5Gc) degradation pathway. [UniProtKB/Swiss-Prot Function]